

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A laminated sintered body ~~having comprising:~~
a ceramic porous body having a thickness of 300 μ m or larger and comprising a material selected from the group consisting of a lanthanum-containing perovskite-type complex oxide, platinum-zirconia cermet, palladium-zirconia cermet, ruthenium-zirconia cermet, nickel-zirconia cermet, platinum-cerium oxide cermet, palladium-cerium oxide cermet, ruthenium-cerium oxide cermet and nickel-cerium oxide cermet; and
a ceramic dense body having a thickness of 25 μ m or smaller, and comprising a material selected from the group consisting of yttria-stabilized zirconia, yttria partially-stabilized zirconia, cerium oxide and lanthanum chromite;
wherein said laminated sintered body ~~having~~ has a helium leakage rate of 10^{-6} Pa \cdot m³/s or lower.
2. (Original) The laminated sintered body of claim 1, having an area of 60 cm² or larger.
3. (Currently Amended) The laminated sintered body of claim 1, obtained by laminating green bodies for said ceramic porous body and said ceramic dense body to obtain a laminate, pressure molding said laminate by cold isostatic pressing to obtain a pressure molded body, and sintering said pressure molded body.
4. (Cancelled).

5. (Currently Amended) The laminated sintered body of claim [[4]]1, wherein said ceramic dense body is a solid electrolyte film, and said ceramic porous body is at least one of an anode and a cathode.

6. (Currently Amended) The laminated sintered body of claim [[4]]1, wherein said laminated sintered body is a conductive interconnector for electrically connecting a plurality of said electrochemical cells, said ceramic porous body is a ceramic substrate and said ceramic dense body is a ceramic film provided on said ceramic substrate.

7. (Original) An electrochemical cell comprising said laminated sintered body of claim 1.

8. (Currently Amended) The electrochemical cell of claim 7, wherein said ceramic dense body is a solid electrolyte film and said ceramic porous body is at least one of an anode and a cathode.

9. (Withdrawn) A method of producing a laminated body having a ceramic porous body having a thickness of 300 μ m or larger and a ceramic dense body having a thickness of 25 μ m or smaller; said method comprising the steps of:

laminating green bodies for said porous body and said dense body to obtain a laminate,

subjecting said laminate to pressure molding by cold isostatic pressing to obtain a pressure molded body, and

sintering said pressure molded body to obtain a laminated sintered body.

10. (Withdrawn) The method of claim 9, further comprising the step of laminating a resin sheet to said green body for said dense body before said laminate is subjected to pressure molding by cold isostatic pressing.
11. (Withdrawn) The method of claim 10, further comprising the step of removing said resin sheet from said pressure molded body before said pressure molded body is sintered.
12. (Withdrawn) The method of claim 9, wherein said laminate is pressure molded by cold isostatic pressing without providing a joining agent between said green bodies for porous and dense bodies.
13. (Withdrawn) The method of claim 9, wherein said laminate comprises one said green body for said porous body and a plurality of said green bodies for said dense bodies and subjected to pressure molding by cold isostatic pressing.
14. (Withdrawn) The method of claim 9, wherein said pressure molding is carried out applying a dry rubber press method or wet rubber press method.
15. (Withdrawn) The method of claim 9, wherein said ceramic laminated sintered body is in use for an electrochemical cell.
16. (Currently Amended) A ceramic laminated sintered body comprising a ceramic porous body having a thickness of at least 300 μ m and a ceramic dense body having a thickness of 25 μ m or less obtained by the a method comprising the steps of claim 9:

providing a green body for said ceramic porous body comprising a material selected from the group consisting of a lanthanum-containing perovskite-type complex oxide, platinum-zirconia cermet, palladium-zirconia cermet, ruthenium-zirconia cermet, nickel-zirconia cermet, platinum-cerium oxide cermet, palladium-cerium oxide cermet, ruthenium-cerium oxide cermet and nickel-cerium oxide cermet;

providing a green body for said ceramic dense body comprising a material selected from the group consisting of yttria-stabilized zirconia, yttria partially-stabilized zirconia, cerium oxide and lanthanum chromite;

laminating said green body for said ceramic porous body and said green body for said ceramic dense body to obtain a laminate;

subjecting said laminate to pressure molding by cold isostatic pressing to obtain a pressure molded body; and

sintering said pressure molded body to obtain said laminated sintered body.

17. (Cancelled).

18. (Currently Amended) An electrochemical cell comprising said ceramic laminated sintered body of claim 16, wherein said ceramic dense body is a solid electrolyte film and said ceramic porous body is at least one of an anode and a cathode.

19. (Withdrawn) A conductive interconnector for connecting a plurality of electrochemical cells, said cell having a first electrode contacting first gas, a second electrode contacting a second gas, and a solid electrolyte film provided between said first and second electrodes: said conductive interconnector comprising:

a ceramic substrate made of a material having resistance against said first gas at an operational temperature of said electrochemical cell, and

a ceramic film formed on said substrate and made of a material having resistance against said second gas at an operational temperature of said cell.

20. (Withdrawn) The interconnector of claim 19, wherein said first gas is an oxidizing gas and said second gas is a reducing gas.

21. (Withdrawn) The interconnector of claim 19, wherein said ceramic substrate comprises lanthanum manganite and said ceramic film comprises lanthanum chromite.

22. (Withdrawn) The interconnector of claim 19, wherein said ceramic substrate comprises nickel-zirconia cermet and said ceramic film comprises lanthanum chromite.

23. (Withdrawn) The interconnector of claim 19, comprising a conductive film on said ceramic film.

24. (Withdrawn) The interconnector of claim 19, wherein said ceramic substrate comprises a groove formed therein for flowing said first gas.

25. (Withdrawn) The interconnector of claim 19, wherein said ceramic substrate comprises a ceramic porous body having a thickness of 300 μ m or larger and said ceramic film comprises a ceramic dense body having a thickness of 25 μ m or smaller, and wherein said interconnector comprises a laminated sintered body of said ceramic porous body and said ceramic

dense body, and said interconnector having a helium leakage rate of 10^{-6} Pa · m³/s or lower.

26. (Withdrawn) An electrochemical device comprising a plurality of electrochemical cells and a conductive interconnector for connecting said cells, said cell having a first electrode contacting a first gas, a second electrode contacting a second gas, and a solid electrolyte film provided between said first and second electrodes: said conductive interconnector comprising:

a ceramic substrate made of a material having resistance against said first gas at an operational temperature of said electrochemical cell, and

a ceramic film formed on said substrate and made of a material having resistance against said second gas at an operational temperature of said cell.

27. (Withdrawn) The device of claim 26, wherein said first gas is an oxidizing gas and said second gas is a reducing gas.

28. (Withdrawn) The device of claim 26, wherein said ceramic substrate comprises lanthanum manganite and said ceramic film comprises lanthanum chromite.

29. (Withdrawn) The device of claim 26, wherein said ceramic substrate comprises nickel-zirconia cermet and said ceramic film comprises lanthanum chromite.

30. (Withdrawn) The device of claim 26, comprising a conductive film on said ceramic film.

31. (Withdrawn) The interconnector of claim 26, wherein said ceramic substrate comprises a groove formed therein for flowing said first gas.

32. (Withdrawn) The device of claim 26, wherein said ceramic substrate comprises a ceramic porous body having a thickness of 300 μ m or larger and said ceramic film comprises a ceramic dense body having a thickness of 25 μ m or smaller, and wherein said interconnector comprises a laminated sintered body of said ceramic porous body and said ceramic dense body, and said interconnector having a helium leakage rate of 10^{-6} Pa \cdot m³/s or lower.

33. (New) The electrochemical cell of claim 7, wherein said ceramic dense body is a solid electrolyte film, and said ceramic porous body is at least one of an anode and a cathode.